

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-11-13 17:22:59

Date of Next Testing: 2027-11-12 17:22:59

Product Name: **β-Nicotinamide adenine dinucleotide phosphate sodium salt hydrate(NADP)**

CAS Number: 1184-16-3

Specifications & Purity: 97%

Lot #: K2309039

SKU #: N107170

Version: 0

Analysis #: 064405

Storage Temperature: Store at -20°C, Argon charged

| Parameter | Limit Values | Result |
|--|---------------------------------------|---------------------------------------|
| Solvent Content (by GC), Acetone | 0-6 (%) | 2.36 % |
| Purity(Spectrophotometric)(Dry Basis) | 97-100 (%) | 98.89 % |
| Water by Karl Fischer | 0-9 (%) | 0.27 % |
| Enzymatic Purity(Dry Basis) | 97-100 (%) | 98.02 % |
| Sodium (Na)(anhydrous) | 1.5-4.3 (%) | 3.25 % |
| Purity(HPLC) | 97-100 (%) | 97.84800 % |
| Appearance (N107170) | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Solubility in H ₂ O , Colorless to Faint Yellow , Clear , 50 mg/ml H ₂ O | pass | Pass |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager